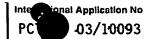
## INTERNATIONAL SEARCH REPORT



A. CLASSIFICATION OF SUBJECT MATTER IPC 7 G02F1/225 G02F1/035

According to International Patent Classification (IPC) or to both national classification and IPC

## **B. FIELDS SEARCHED**

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 G02F

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, WPI Data, INSPEC, IBM-TDB, COMPENDEX

Category °	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	EP 0 813 092 A (SUMITOMO OSAKA CEMENT COLLTD) 17 December 1997 (1997-12-17) column 2, line 1 - column 2, line 40; figures 1A,1B	1
X	US 6 198 855 B1 (HUSSELL CHRIS ET AL) 6 March 2001 (2001-03-06) column 2, line 25 - column 8, line 9; figures 2,3	1
X	WO 96/36901 A (INTEGRATED OPTICAL COMPONENTS; DONNELL ADRIAN CHARLES O (GB)) 21 November 1996 (1996-11-21) page 8, line 10 - page 9, line 30; figures 1A-2B	1
•	-/	

	·
Y Further documents are listed in the continuation of box C.	χ Patent family members are listed in annex.
Special categories of cited documents:      A* document defining the general state of the art which is not considered to be of particular relevance      E* earlier document but published on or after the International filling date      L* document which may throw doubts on priority clalm(s) or which is cited to establish the publication date of another citation or other special reason (as specified)      O* document referring to an oral disclosure, use, exhibition or other means      P* document published prior to the international filling date but later than the priority date claimed	<ul> <li>"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention</li> <li>"X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone</li> <li>"Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.</li> <li>"8." document member of the same patent family</li> </ul>
Date of the actual completion of the international search  10 February 2004	Date of mailing of the international search report  19/02/2004
Name and mailing address of the ISA  European Patent Office, P.B. 5818 Patentlaan 2  NL – 2280 HV Rijswijk  Tel. (+31–70) 340–2040, Tx. 31 651 epo nl,  Fax: (+31–70) 340–3016	Authorized officer  Kiernan, L

	. •		FUT/EP 03	/10093	
	etion) DOCUMENTS CONSIDERED TO BE	•			
Category °	Citation of document, with Indication, where	e appropriate, of the relevant passages .		Relevant to claim No.	
	NOGUCHI K ET AL: "M TI:LINBO3 OPTICAL MO JOURNAL OF LIGHTWAVE YORK, US, vol. 16, no. 4, 1 Ap pages 615-619, XP000 ISSN: 0733-8724 the whole document			. 1-10	
	OF TI:LINBO3 OPTICAL WITH A BUFFER LAYER" ELECTRONICS & COMMUN	JICATIONS IN JAPAN, CS, SCRIPTA TECHNICA.	٠.	1-10	
	the whole document		,		
	•	•			
		•			
	,	•			
		•	•		
			• • • • • • • • • • • • • • • • • • • •		
	•		•		
				•	
			•		
	·	• *			
			• •		•
			-		•
			•		
		· ·	÷		
	•				
					•
		·			
		••			
	1		•	i	



Integral Application No PCT/EP 03/10093

Patent document cited in search report		Publication date		Patent family member(s)	Publication date
<u> </u>		17-12-1997	JP	2793562 B2	03-09-1998
EP 0813092	Α .	. 1/-12-133/	JP	10003065 A	06-01-1998
		•	JP	2801894 B2	21-09-1998
			JP	10048583 A	20-02-1998
			JP	2801900 B2	21-09-1998
			JP	10133158 A	22-05-1998
			CA	2207715 A1	14-12-1997
	•		EP	0813092 A1	17-12-1997
•			US	5748358 A	05-05-1998
				3/40330 A	05 05 1990
US 6198855	B1	06-03-2001	US	5895742 A	20-04-1999
00 0170000			ΑÜ	4240600 A	02-11-2000
			CA	2368726 A1	26-10-2000
			EP	1171796 A1	16-01-2002
•		٠.	JP	2002542511 T	10-12-2002
•			WO	0063743 A1	26-10-2000
		•	EP	0819969 A2	21-01-1998
			JP	10068914 A	10-03-1998
WO 9636901		21-11-1996	 EP	0827598 A2	11-03-1998
MO 2020201	^	21, 11 1990	WO	9636901 A2	21-11-1996
		•	GB	2315129 A ,B	21-01-1998
		• • •	JP	11505337 T	18-05-1999
		• •	US	6052496 A	18-04-2000